

LR22

LR22™ 595 mm x 595 mm LED Troffer

Product Description

The recessed flat panel design of the LR22 LED troffer blends seamlessly into any ceiling and offers soft, smooth, fully-luminous light, creating a quiet ceiling that keeps spaces bright and vibrant. The innovatively thin <100mm depth of the LR22 LED troffer easily accommodates narrow plenums and is ideal for both retrofit and new construction. The LR22 LED troffer delivers up to 3400 lumens and is ideal for exceptional 90 CRI light while achieving an efficacious 100 lumens per watt. This breakthrough performance is achieved by combining the high efficacy and high-quality light of Cree TrueWhite® Technology. A variety of dimming and control options offer even more energy savings opportunity while providing a new level of flexibility that enables a more personal lighting experience with DALI controls.

Applications: Office, shops, education, petroleum

Performance Summary

Utilizes Cree TrueWhite® Technology

Efficacy: up to 100 LPW

Delivered Light Output: up to 3400 lumens

Input Power: 34 watts

CRI: 90 CRI

CCT: 3000K, 4000K

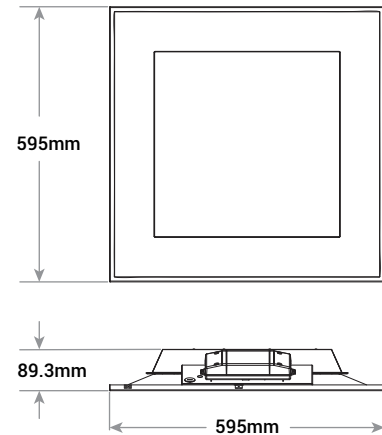
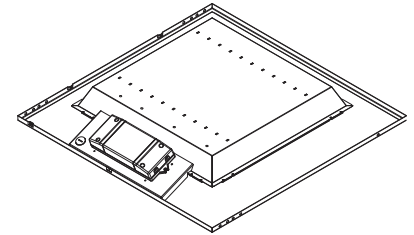
Input Voltage: 220-240 VAC

Limited Warranty: 10 years

Lifetime: 50,000 hours L_{70} at 25°

Controls: ADIM (1-10V) Dimming to 5% or DALI dimming to 5%

Mounting: Recessed



Ordering Information				
Example: LR22-34L-40K-23-ADIM				
LR22	34L	40K	23	ADIM
Product	Lumen Output	Color Temp	Voltage	Control
LR22	32L 34W 3300 lumen - 97LPW	30K 3000 Kelvin	23 220-240V (Standard)	ADIM Dimming to 5% DALI Dimming to 5%
	34L 34W 3400 lumen - 100 LPW	40K 4000 Kelvin		



Product Specifications

CREE TRUEWHITE® TECHNOLOGY OPTION

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics, and lifelong color consistency, all while maintaining high luminous efficacy - a true no compromise solution.

CREE LED TECHNOLOGY

Cree's total systems approach to product development is a comprehensive engineering philosophy that combines the most advanced LED sources, driver technologies, optics and forms. The result is highly-reliable luminaire solutions for both indoor and outdoor applications that reduce energy use, extend lifetimes, and maximize illumination performance and quality.

CONSTRUCTION & MATERIALS

- Durable cold rolled steel housing provides strength and uniformity
- Ultra-thin 100mm fixture height and lightweight design effectively target a broad range of plenum spaces and allow for easy installations
- Fixture is powder coated for a soft textured finish
- Provided t-bar clips and holes for mounting support wires enable recessed or suspended installation
- Fixture sides and ends are hemmed in for safe, easy handling

OPTICAL SYSTEM

- Recessed flat panel design delivers more surface area light creating a soft highly diffused light source
- Components work together to optimize distribution, balancing the delivery of high illuminance levels on horizontal surfaces with an ideal amount of light on walls and vertical surfaces

ELECTRICAL SYSTEM

- Integral, high-efficiency driver and power supply
- Power Factor : = 0.9 nominal
- Input Power : Stays constant over life
- Input Voltage: 220-240V, 50/60Hz
- Temperature Rating: 0-35° C
- Total Harmonic Distortion: < 20%

CONTROLS

- Dimming: Dimmable to 5% with Analog 1-10V or DALI control protocols. Reference www.cree.com/lighting for recommended dimming controls

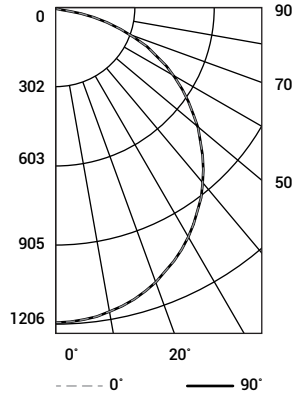
REGULATORY & VOLUNTARY QUALIFICATIONS

- CE certified
- Suitable for damp locations
- Designed for Indoor use

Photometry

LR22 34L 40K BASED ON RESTL REPORT TEST #: PL05176-001

Fixture photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. IESNA LM-79-08 specifies the entire luminaire as the source resulting in a fixture efficiency of 100%.



Coefficients Of Utilization				
RCC %:	80			
RW %:	70	50	30	0
RCR: 0	119	119	119	119
1	109	104	100	97
2	99	91	84	79
3	90	80	72	65
4	83	71	62	55
5	76	63	54	48
6	70	57	48	42
7	65	52	43	37
8	61	47	39	33
9	57	43	35	29
10	53	40	32	27

Effective Floor Cavity Reflectance: 20%

Average Luminance Table (cd/m²)				
	Horizontal Angle			
	0°	45°	90°	
Vertical Angle	45°	3,441	3,456	3,449
	55°	3,297	3,320	3,311
	65°	3,070	3,101	3,091
	75°	2,342	2,584	2,385
	85°	491	611	579

Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	933	N/A	27.7%
0-40	1,527	N/A	45.3%
0-60	2,696	N/A	80.0%
0-90	3,372	N/A	100%

Reference www.cree.com/lighting for detailed photometric data

Application Reference

Open Space					
Spacing (m)	Lumens	Wattage	LPW	w/m²	Actual Lux
2.4 x 2.4	3,400	34	100	5.64	517
2.4 x 3.0	3,400	34	100	4.69	431
3.0 x 3.0	3,400	34	100	3.76	344
3.0 x 3.6	3,400	34	100	3.03	280

3m ceiling: 80/50/20 reflectances; 0.75m workplane, open room. LLF: 1.0 Initial
Open Space: 15m x 12m x 3m

